

THE GALILEAN SATELLITE GEOLOGICAL MAPPING PROGRAM, 1986
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The Galilean Satellite Geological Mapping Program was established to illuminate detailed geologic relations on the four large satellites of Jupiter. The program involves about 40 investigators from various universities, research institutes, and government offices in the United States, England, Germany, and Italy. A total of 24 researchers were assigned to map 15 quadrangles on Ganymede, 15 to map 6 quadrangles on Io, and 3 to map 2 quadrangles on Europa. Maps for these three bodies are at a scale of 1:5 million except for three on Io that cover selected areas where high-resolution pictures permit compilation at 1:2 and 1:1 million scales. A 1:15,000,000-scale map of Callisto has been assigned; from it, quadrangles containing useful geologic information will be extracted later for mapping at a scale of 1:5,000,000.

During 1986 all remaining preliminary base materials were sent to the mappers. Final airbrush base materials for Jg3, 4, 6, 7, 8, 9 and 10 are now completed, and those for Jg1 and 12 are being reproduced photographically. Airbrush revisions are not yet completed on the major maps Jg5, 13, and 15 nor on the peripheral maps Jg2, 11, and 14.

One geologic map (Ji2c) has USGS Director's approval and is being drafted for publication. Two maps (Ji2a and Jg8) are undergoing USGS editorial review, one (Ji4) is being revised by the author after technical reviews, and three (Ji2, Jg3, and Jg4) are in technical review. Geological results and changes in previously established guidelines were discussed at a meeting in March 1986 in Houston, and a report detailing the changes was sent to the mappers in May. In addition, copies of all preliminary geologic maps and explanations were sent to members of the Galileo imaging team to aid in advance planning of the mission.